



hr120MCX

HR CoaXPress



The interface standard CoaXPress was developed to meet the need for higher bandwidth generated by recently launched sensors. In particular high resolution CMOS sensors are capable of extremely high frame rates. CoaXPress therefore is the first choice for applications where speed is of prime importance.

Technical Highlights

Bundled with the Python 25 from ON Semiconductor, the CoaXPress interface transmits 80 frames per second, expanding the capability of the HR series by leaps and bounds.

- > Up to 25 Gbit/sec.
- > 4,5 μm pixel pitch
- > ROI, LUT, binning, offset, gamma
- > Power over CXP
- > Integrated multi channel LED strobe controller
- > Industrial TTL-24V I/O Interface with SafeTrigger, programmable logic, sequencer and timers, RS232
- > Cabel length up to 200 meter

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Pinout

Hirose 12 Pin	1	VIN - (GND)	7	OUT 1 (open drain)
	2	VIN + (10V to 25V DC)	8	OUT 2 (open drain)
	3	IN 4 (RXD RS232)	9	IN 3 + (opto In +)
	4	OUT 4 (TXD RS232)	10	IN 3 - (opto In -)
	5	IN 1 (0-24V)	11	OUT 3 (open drain)
	6	IN 2 (0-24V)	12	OUT 0 (open drain)

HR Series

hr120MCX

Resolution	13272 x 9176 px
Frame rate (max.)	9.4 fps
Chroma	mono
Interface	CXP-6 4 Lanes

Sensor

Sensor	120MXSM
Manufacturer	Canon
Sensor type	Area CMOS
Shutter type	rolling shutter
Sensor size (h x v)	29.2 x 20.19 mm
Optical diagonal	35.5 mm
Sensor format	APS-H
Pixel size (h x v)	2.2 x 2.2 μ m

Camera

Exposure modes	MANUAL;AUTO
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	40 μ s
Exposure time (max)	1 sec (external ∞)
Pixel format / max	mono8, mono10 / 10 bit
Gain modes	manual, auto
Internal memory	512 MB SDRAM, 160 MB Flash

Feature Set

Manual white balance	yes
Automatic white balance	yes
AOI	yes
LUT	yes
Offset	yes
Binning	yes
Shading correction	yes (external)
Defect pixel correction	yes

Housing

Lens mount	M58
Dimensions (w x h x d)	70 x 70 x 51 mm
Weight	380 g
Ambient temperature	-10 to 45 $^{\circ}$ C
Ambient humidity	10 to 90 % (non-condensing)
Protection class	IP30

I/O-Interfaces

Input up to 24V	2 x
Input OPTO	1 x
Output open drain	4 x
I/O RS-232	1 x
Power supply	10 to 25 V (DC)